

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1584728

Luminaire Tested: 14CZSP-A-60VHE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-60VHE-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

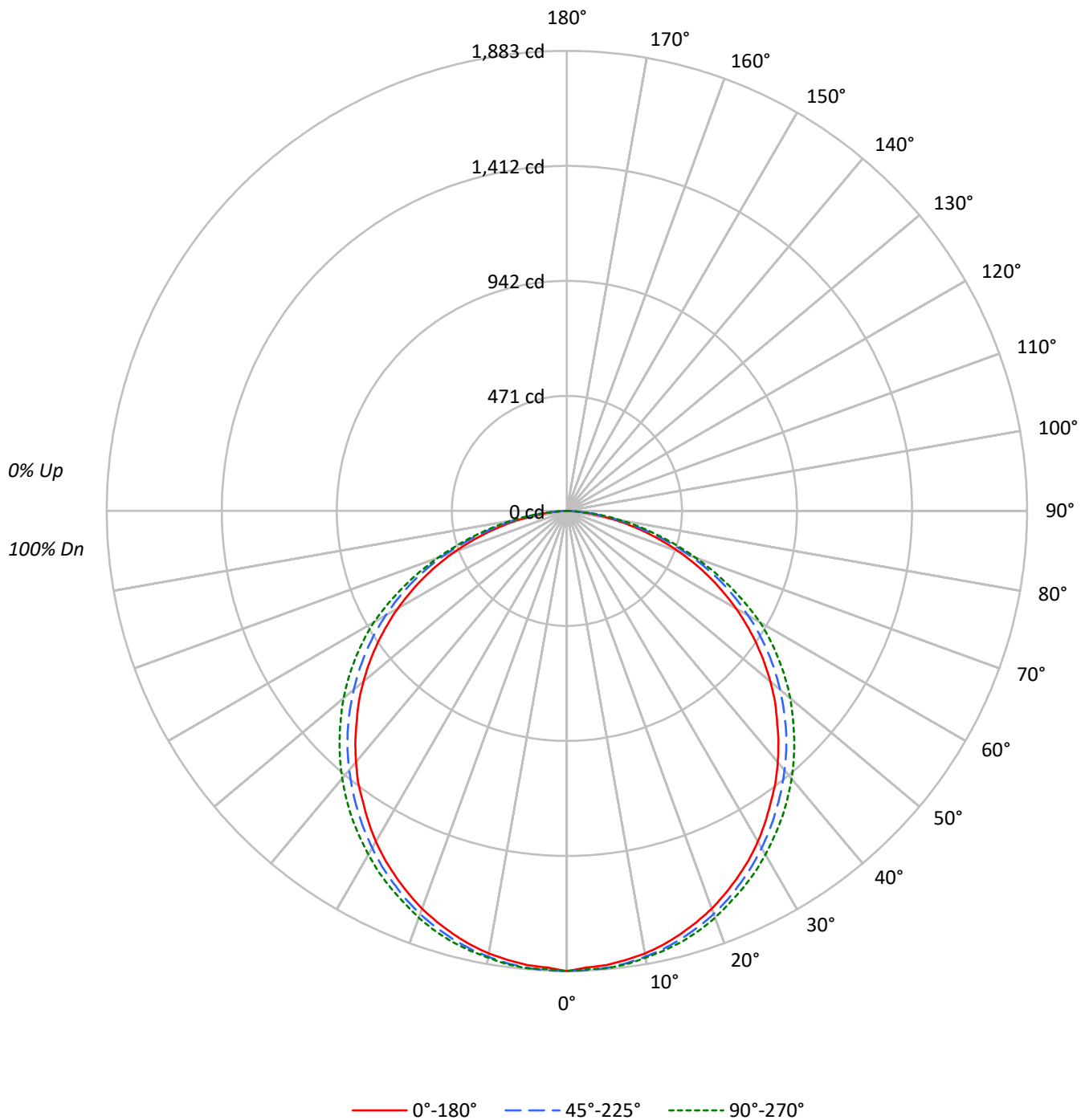
Lumens per Lamp: N/A
Luminaire Lumens: 5445.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6346	6346	6346
5°	6311	6352	6357
10°	6293	6340	6354
15°	6257	6321	6366
20°	6214	6297	6354
25°	6150	6249	6335
30°	6081	6199	6321
35°	5983	6145	6310
40°	5905	6095	6293
45°	5794	6042	6267
50°	5697	5970	6256
55°	5560	5885	6215
60°	5391	5769	6152
65°	5151	5611	5898
70°	4801	5298	5535
75°	4288	4779	5050
80°	3514	4028	4416
85°	2354	2942	3286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6267 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	3.3
10°-20°	511.4	9.4
20°-30°	774.3	14.2
30°-40°	935.1	17.2
40°-50°	977.2	17.9
50°-60°	895.5	16.4
60°-70°	691.2	12.7
70°-80°	388.8	7.1
80°-90°	93.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1464.1	26.9
0°-40°	2399.2	44.1
0°-60°	4271.9	78.5
0°-90°	5445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1866	1879	1878	1879	1879	177
15°	1794	1808	1812	1819	1825	506
25°	1654	1669	1681	1690	1704	762
35°	1455	1473	1494	1514	1534	911
45°	1216	1240	1268	1294	1315	940
55°	946	971	1002	1033	1058	846
65°	646	674	704	732	740	638
75°	329	360	367	382	388	349
85°	61	70	76	83	85	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1883.4	1883.4	1883.4	1883.4	1883.4
2.5°	1870.6	1885.0	1881.8	1886.6	1877.8
5°	1865.8	1879.4	1877.8	1879.4	1879.4
7.5°	1853.8	1868.2	1867.4	1869.8	1871.4
10°	1839.3	1853.0	1853.0	1855.4	1857.0
12.5°	1819.3	1833.7	1835.3	1839.3	1842.6
15°	1793.7	1808.1	1812.1	1819.3	1824.9
17.5°	1764.8	1780.0	1786.5	1793.7	1800.9
20°	1732.8	1746.4	1756.0	1761.6	1772.0
22.5°	1695.1	1710.3	1720.7	1726.3	1737.6
25°	1654.2	1668.6	1680.7	1689.5	1703.9
27.5°	1610.9	1625.4	1639.8	1650.2	1667.0
30°	1562.8	1578.1	1593.3	1609.3	1624.6
32.5°	1510.8	1528.4	1545.2	1562.8	1579.7
35°	1454.6	1473.1	1493.9	1514.0	1534.0
37.5°	1402.6	1419.4	1441.0	1462.7	1482.7
40°	1342.4	1360.9	1385.7	1409.8	1430.6
42.5°	1281.5	1301.6	1328.8	1352.1	1374.5
45°	1215.8	1239.9	1267.9	1293.6	1315.2
47.5°	1154.9	1175.7	1203.8	1231.8	1254.3
50°	1086.8	1110.0	1138.9	1168.5	1193.4
52.5°	1017.9	1041.9	1071.6	1101.2	1126.9
55°	946.5	971.4	1001.8	1033.1	1057.9
57.5°	873.6	900.0	931.3	962.6	987.4
60°	799.9	826.3	856.0	890.4	912.9
62.5°	722.9	752.6	780.6	812.7	826.3
65°	646.0	674.0	703.7	731.7	739.7
67.5°	567.4	596.3	622.7	641.2	651.6
70°	487.3	518.5	537.8	555.4	561.8
72.5°	407.9	439.2	450.4	467.3	473.7
75°	329.4	359.9	367.1	382.3	387.9
77.5°	253.3	281.3	283.7	301.3	306.2
80°	181.1	203.6	207.6	224.4	227.6
82.5°	116.2	132.2	137.9	152.3	157.1
85°	60.9	69.7	76.1	83.4	85.0
87.5°	20.0	24.8	20.8	21.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.13	19.78	18.50	20.10	20.41	18.67	20.32	19.04	20.64	20.95
	3H	19.91	21.40	20.28	21.73	22.09	20.53	22.02	20.91	22.35	22.71
	4H	20.53	21.94	20.93	22.29	22.66	21.20	22.61	21.60	22.95	23.33
	6H	20.94	22.25	21.35	22.61	23.00	21.67	22.98	22.09	23.34	23.73
	8H	21.05	22.29	21.47	22.68	23.08	21.82	23.07	22.24	23.46	23.85
	12H	21.10	22.29	21.53	22.67	23.10	21.90	23.10	22.33	23.48	23.91
4H	2H	18.86	20.26	19.25	20.61	20.99	19.28	20.69	19.68	21.03	21.41
	3H	20.85	22.03	21.26	22.43	22.83	21.35	22.53	21.76	22.93	23.33
	4H	21.61	22.68	22.04	23.09	23.53	22.15	23.22	22.58	23.63	24.06
	6H	22.14	23.07	22.59	23.51	23.97	22.75	23.68	23.20	24.12	24.58
	8H	22.28	23.15	22.74	23.59	24.06	22.94	23.81	23.40	24.26	24.72
	12H	22.35	23.14	22.83	23.61	24.08	23.06	23.85	23.54	24.32	24.79
8H	4H	21.95	22.82	22.41	23.26	23.73	22.42	23.30	22.88	23.74	24.20
	6H	22.59	23.31	23.08	23.80	24.27	23.14	23.86	23.63	24.35	24.82
	8H	22.79	23.44	23.29	23.94	24.43	23.39	24.04	23.90	24.55	25.03
	12H	22.92	23.49	23.42	23.98	24.54	23.57	24.15	24.08	24.64	25.20
12H	4H	21.98	22.77	22.46	23.24	23.71	22.45	23.23	22.93	23.71	24.18
	6H	22.64	23.29	23.15	23.80	24.28	23.17	23.82	23.68	24.33	24.82
	8H	22.89	23.47	23.40	23.96	24.52	23.48	24.06	23.99	24.55	25.11